

Data Dictionary. Pediatric and adult physiological parameters for the human BDCM model

Parameter, units	Symbol
Height, cm	height
Body Weight, kg	BW
Alveolar ventilation Rate, L/h-m ²	QPC
Alveolar Deadspace, unitless	deadspace
QPC to Cardiac Output (CO) Ratio, unitless	RQPCO
Fractional Blood Flows, unitless	
Richly Perfused Tissue Group	FQRP
Liver	FQL
Gastrointestinal Tract	FQG
Kidney	FQK
Poorly Perfused Tissue Group	FQPP
Fat	FQF
Blood Flow to Skin, L/min-m ²	QSKSA
Compartment Volume, unitless	
Blood fraction of BW	FVBD
Blood as arterial	FVART
Blood as venous	FVVEN
Richly perfused fraction of BW	FVRP
Poorly perfused fraction of BW	FVPP
GI tract fraction of BW	FVGI
Liver fraction of BW	FVL
Fat fraction of BW	FVF
Kidney fraction of BW	FVK
Volume GI tract lumen, L	VLUM
Skin thickness, mm	LSK

Data Dictionary. Chemical-specific parameters in the human BDCM model*

Parameter, units	Symbol
Partition coefficients, unitless	
Blood:Air	PBBDCM
Liver:Blood	PLBDCM
Gut:Blood	PGBDCM
Kidney:Blood	PKBDCM
Fat:Blood	PFBDCM
Skin:Blood	PSKBDCM
RPTG:Blood	PRPBDCM
PPTG:Blood	PPPBDCM
Skin diffusion coefficient, cm/h	KBDCM
Skin:water partition coefficient	PWSBDCM
Oral absorption coefficient, h ⁻¹	KABDCM
Vmax CYP Liver, µg/h-pmol CYP2E1	IVVMAX
KM CYP Liver, µg/L	KM1BDCM
Kf GST Liver, 1/h-kg BW ^{0.75}	VFCBDCM